# MJ 100 TRAVELIFT → CRANE SPECIFICATIONS • INDUSTRIAL APPLICATION •



**CAPACITY**......200,000 LBS(90,719KG)

#### STANDARD EQUIPMENT

Enclosed cab 16' 4" (4.98 m) eye level • Tinted glass • Windshield wiper • Adjustable bucket seat • Operating switches and gauges

- Noise suppression 4 Red strobe lights 4 Motion alarms
- Cummins Diesel QSB6.7 engine with grid heater (2) dual wheel rear wheel drive Rear wheel steer Vivid yellow paint w/black yokes and wheels Single trolley Chain traverse
- Programmable Electronic Control System (ECS) Electronic, stepless, infinitely variable controls for hoist, traverse and drive
- 18.00 x 25 Bias Ply tires Wheel guards Air intake pre-cleaner
- 8 Lights (4 work, 4 drive)

#### **ENGINE**

Make and Model	
Fuel	No. 2 Diesel
No. of Cylinders	6
Fuel Supply	Bosch CP3.3 Electronic
Air Cleaner	Dry Type
Oil Filter	Renewable Cartridge
Cooling System	Pressurized Radiator
Horsepower	
Gross @ Flywheel	260 hp @ 2200 rpm
	194 kW @ 2200 rpm
Torque, maximum @ Flywheel	728 lbs. ft. @ 1500 rpm
•	987 Nm @ 1500 rpm

#### **ELECTRICAL**

Voltage24 Volt	Alternator	70 Amps
Batteries (2)	.1000 CCA @ 0°F (-18°C) f	for 30 sec.

# **MAIN HYDRAULICS**

Hoist & Traverse Pump2	Piston-type load sensing variable
	displacement
Hoist & Traverse Control	Four spool sectional valve
Drive PumpPiston type	over center variable displacement

# **DRIVE SYSTEM**

Hydrostatic on rear wheels. Four piston motors (one at each rear wheel) drive planetary gear transmissions with a roller chain to the drive sprocket at the wheels.

Chain......ANSI180

# **BRAKING SYSTEM**

Service	Automatic hydrostatic braking
Parking	MultiDisc "SAHR <sup>1</sup> "

#### **STEERING**

Electrically controlled hydraulic power rear wheel steer with two double acting cylinders.

# TRAVERSE SYSTEM

Direct Chain Drive, one located of	n each top beam. Eachtraverse
is individually controlled and is dr	iven by a hydraulic motor.
Motor	
Brake	MultiDisc "SAHR <sup>1</sup> "
Chain	ANSI120

#### **HOIST SYSTEM**

Hoist drums are directly coupled to a planetary gearbox, one located on each top beam. Each individually controlled. Each hoist is driven by a fixed displacement piston motor integrated with a direct mounted counterbalance valve.

	Axial Piston
Brake	MultiDisc "SAHR <sup>1</sup> "
Wire Rope3/4	4" EEIPS, Class 6x37, Warrington Seale
Reeving	8 parts per top beam
Sheave Pitch Diameter	19.38" (492mm)

#### **PERFORMANCE**

Traverse Speed (Rated Capacity)

Speed	60 fpm (18.3 m/min)
Slope	
2 Speed Hoist	
Rated Capacity	17.0 fpm (5.2 m/min)

Empty<sup>2</sup>......37.0 fpm (11.3m/min)

	Level Drive Speed at Rated Capacity	Gradeability at Rated Capacity
Final Drive Ratio	Speed	Paved Gravel
2 Speed Drive		
2.00:1 Empty	4.9 mph (7.9 km/h)	5.6%3.5%
Laden	2.75 mph (4.4 km/h).	5.6%3.5%

SERVICE CAPACITIES	U.S.	METRIC
Fuel Tank		379L
Hydraulic System <sup>3</sup>	.75 to 100 gals 284	to 379L
Hydraulic Reservoir	51 gals	193L
Cooling System	33 qts	31L
Engine Oil (w/Filter)	17 qts	16L
Pump Drive Transmission	4 qts	3.8L

#### **OPTIONAL EQUIPMENT**

Dual/split trolley (specify spacing) • Top beam widths • Column heights • Side beam lengths • Inward facing cab • Raised operator cab • Ladder safety device(s) • Transverse steer

- Cab heater Engine block heater Remote control Open operator station under side beam Drive camera/monitor kit
- Maintenance ladders and platforms for hoists Air conditioner
- AC light package Power on Demand

# **ACCESSORIES**

Spare tire and wheel • American tool kit (recommended for export)

- Filter kits (Hydraulic/engine kits available) Export preparation
- Magnet package<sup>4</sup> Spreader beams Spare parts kit

<sup>1-&</sup>quot;SAHR" spring applied hydraulic release; Automatic Actuation; No mechanical adjustment

<sup>2-</sup>Contact factory for speeds at loads other than empty.

<sup>3-</sup>System capacity varies depending on height and width of unit.

<sup>4-</sup>Consult factory when adding magnet package.

# **MJ100 TRAVELIFT**→**CRANE**

### **ESTIMATED SHIPPING WEIGHTS:**

			ICW			
		40' 0"	50' 0"	60' 0"		
	25' 0"	137,417 lbs 62,331 kg	144,170 lbs 65,394 kg	150,970 lbs 68,479 kg		
нк нт	30' 0"	145,225 lbs 65,873 kg	151,978 lbs 68,936 kg	158,778 lbs 72,020 kg	24' 0"	WB
	40' 0"	149,429 lbs 67,780 kg	156,182 lbs 70,843 kg	162,982 lbs 73,927 kg		

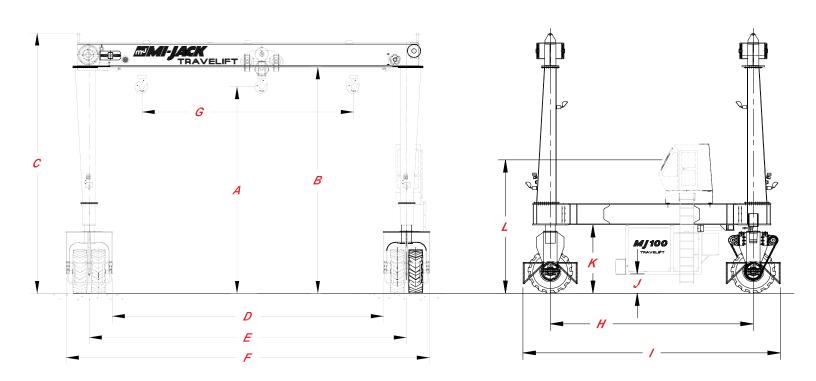
1	١	hhΑ	2.950	) lhs	for	30'	WR
	.,	nuu	2.000	บบง	101	JU	V V D

<sup>2.)</sup> Add 7,860 lbs for 40' WB

# **GROUND BEARING PRESSURE:**

			ICW			
		40' 0"	50' 0"	60' 0"		
	25' 0"	119 psi	122 psi	124 psi		
	MINSPAN	820 kPa	841 kPa	855 kPa		
보	30' 0"	120 psi	122 psi	124 psi	24' 0"	WB
H HT	MINSPAN	827 kPa	841 kPa	855 kPa	24 0	>
	40' 0"	121 psi	123 psi	126 psi		
	MINSPAN	834 kPa	848 kPa	869 kPa		

# **DIMENSIONAL DATA**



Any combination of widths, heights, and length sshow nare available except as noted in charts. Dimensional variations may occur based upon optional equipment characteristics. All crane dimensions are capable of full capacity. Consult factory for optional dimension and ratings

A B		С	D	E	F	G
HEIGHT TO	HEIGHT TO	O VER ALL		TREAD	OVERALLWIDTH	TROLLEY
HK. THROAT (1)	BTTM OF TP BM	HEIGHT	I.C .W . <sup>(2)</sup>	WIDTH	AT GROUND (3)(4)	TRAVEL (5)
25'- 0" ( 7.62 m)	27'- 9" ( 8.46 m)	32'-0" ( 9.57 m )	40 '- 0" (12.19 m)	45'- 8" (13 .92 m)	51'- 5" (15.67 m)	34'- 1" (10 .39 m)
30'- 0" ( 9.14 m)	32'- 9" ( 9.98 m)	37'- 0" (11.28 m )	50 '- 0" (15.24 m)	55'- 8" (16 .97 m)	61'- 5" (18.72 m)	44'- 1" (13 .44 m )
†40'- 0" (12.19 m)	42'- 9" (13.03 m )	47'- 0" (14.33 m )	60 '- 0" (18.29 m)	65'- 8" (20 .02 m)	71'- 5" (21.77 m)	54'- 1" (16 .48 m)

H WHEELBASE & HK. CENTERS	OVER ALL LENGTH	J GROUNDTO ENG. FRAME	K GROUNDTO SIDE BEAM	L OPERATOR EYE LEVEL	
24'- 0" ( 7.32 m) 30'- 0" ( 9.14 m) 40'- 0" ( 12.19 m )	30'- 5" (9.2 7 m) 36'- 5" (11.10 m) 46'- 5" (14.15 m)	1'- 6" ( 0.46 m )	,	Inw ard fac ing c ab S td. forw ard c ab H igh Inw ard facing cab	16'- 4" ( 4.98 m) 16'- 4" ( 4.98 m) 18'- 2" ( 5.54 m)

<sup>(1) )</sup> Add 3" (0.08 m) for dual trolley option.

Subtract 2" (0.05 m) for hardware

NOTE: All heights above ground include 2" tire deflection for an unloaded crane. Up to 3" additional should be deducted for tire deflection at rated load. Inside, outside and height dimensions are nominal and may vary due to manufacturing standards and structural deflection.

<sup>(2)</sup> Meas ured from face of yoke.

<sup>(3)</sup> For unit with rais ed ca b options add 1.5" (0.38 m )

to left side clearance.

<sup>(4)</sup> Subtrac t 6" (0.15 m) for ov erall width at top.

<sup>(5)</sup> Single trolley dim ens ions shown,

For dual trolley, subtract (trolley spacing + 6" (0.15 m))

<sup>†</sup> Tie baroptions